



The third GHRSSST-PP Workshop:
Users and Applications of High-Resolution Sea Surface Temperature Data Sets.

AGENDA

ESA/ESRIN, Frascati, Italy, December 2-4th 2002.

Wednesday, 20 November 2002

Dear Colleague:

Welcome to the European Space Agency ESRIIN facility at Frascati, Italy and the GODAE High Resolution Sea Surface Temperature Pilot Project (GHRSSST-PP) third Workshop. The following pages provide local organization details, a meeting agenda and an attendance list providing contact details for all workshop participants.

Following the publication of the GHRSSST-PP Strategy document in early 2002, significant progress towards implementing the GHRSSST-PP was made during the Second GHRSSST-PP Workshop (held at NASDA EOC, Tokyo, Japan, May 2002). So much, in fact, that the GHRSSST-PP Science Team decided that a third workshop should take place at the end of 2002 in order to maintain the considerable momentum evident within the GHRSSST-PP. The European Space Agency (ESA) kindly offered to host the workshop here in Frascati and I would like to take this opportunity to acknowledge the excellent support provided to the GHRSSST-PP by ESA. For a complete description of the GHRSSST-PP project, please visit the GHRSSST-PP web site (<http://www.ghrsst-pp.org>) where you will find a full description of the project together with many other GHRSSST-PP reference documents.

The third GHRSSST-PP workshop theme is ***Users and applications of high-resolution sea surface temperature data sets***. It's aim is to provide an opportunity for potential users to influence the data products and services that will be provided by the GHRSSST-PP. It is the first formal opportunity for dialogue between many of the users of GHRSSST-PP and the Science Team and is an important waypoint on the route to a successful implementation of the GHRSSST-PP. Papers considering many aspects of real-time satellite derived sea surface temperature will be presented and I encourage questions and discussion to emphasise:

- The specific requirements for sea surface temperature data products by operational ocean coupled, and atmospheric models
- Applications of regional high resolution sea surface temperature data in real time
- Validation of satellite sea surface temperature data including inter-comparisons of satellite-satellite, satellite-in situ and, satellite-model output
- Merging and analysis of In situ sea surface temperature data together with Microwave, Infrared and other satellite measurements
- Operational schemes for the parameterisation of SSTskin-SSTdepth SST and methods to account for diurnal warming

Workshop proceedings, including poster presentations will be published and it is hoped that selected papers will be collated for journal publication.

During the presentations, it is useful for participants to bear in mind that this workshop has a number of desired outputs. Keeping these in focus throughout the workshop is of paramount importance and I call upon session leaders to remind the audience at all possible opportunities of why we are here and the questions that we are considering. In particular, this workshop should result in:

- A number of clearly defined, collaborative, application experiments in which GHRST-PP data products will be operationally used during the 2003-2005 period.
- A set of Workshop recommendations for the implementation of the GHRST-PP.
- A detailed GHRST-PPP implementation schedule in which responsibility for specific tasks is clearly identified.
- Recommendations for the operational optimal combination of satellite and in situ SST data sets.
- A consensus on the rules for conversion between SST_{skin} and SST depth measurements accounting for diurnal variability and the SST_{skin}-SST_{depth} temperature difference.

While these are challenging demands, they are the sole reason that we will be together for the following 3 days. I look forward to exciting and fruitful discussions in Frascati and I wish you a pleasant stay.

Craig Donlon, 4th November 2002.

Note to Session Leaders:

Please could you provide a short summary of the important points made during each session that can be included in a summary of the Proceedings.

Posters:

A number of poster presentations have been received and these will be displayed throughout the meeting.

Practical arrangements for the GODAE GHRSSST Workshop ESRIN, 02-04 December 2002

LUNCH

Lunch is available in the ESRIN canteen and is payable in cash. The canteen has a wide variety of dishes including vegetarian.

DIRECTIONS FROM AIRPORT

Road directions from Rome Fiumicino airport to the Frascati area are available on the ESA web site:

http://www.esa.int/export/esaCP/GGG8UIPZOGC_index_0.html

BOOKING OF HOTEL ROOMS AND AIRPORT TAXIS

Cancellations should be made in writing to the ESRIN Travel Office - fax no.

0039 06 9418 0242

No show hotel and taxi bookings will be charged to the requestor's credit card.

LOCAL TRANSPORTATION

Daily bus transportation will be arranged between the pre-booked hotels and ESRIN and for any social events.

WELCOME PACKAGE

A welcome package of documentation including meeting logistics, courtesy bus timetable and social event details will be provided at the hotel check in.

MEETING ADDRESS

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Agenda for December 2nd 2002

Time	Title	Leaders
08:30	Registration	
09:00	Welcome and local arrangements	Olivier Arino
09:05	Outline of Workshop objectives and agenda	Craig Donlon
09:10	Opening of the third GHRSSST-PP workshop	Dr. Stephen Briggs
09:30	Overview of the GHRSSST-PP Implementation Plan.	Craig Donlon
	Session 1. The GHRSSST-PP Applications and User Services (AUS)	
09:40	D. Llewellyn-Jones: Sea Surface Temperature Data for the detection of Global Change	I Robinson
10:00	P. Bahurel: Application of GHRSSST-PP data products in MERCATOR	
10:20	H. Cattle: CLIVAR and the GHRSSST-PP	
10:40	Session summary	I Robinson
10:50	Coffee	
11:05	P. Yves-Le Traon: Applications of GHRSSST-PP data products in MERSEA	I. Robinson
11:25	R. Santoleri: Mediterranean Forecasting System: results and prospective of satellite sea surface temperature assimilation	
11:45	W. Emery: Using GHRSSST-PP data products in Maximum Cross Correlation (MCC) ocean current mapping	
12:05	M. Drusch: Requirements for future SST data sets from the ECMWF perspective	
12:25	Session summary	I Robinson
12:35	Lunch break	
14:00	H. Kawamura: The Coastal Ocean Observing Panel (COOP) and GHRSSST-PP	B. Emery
14:20	S. Pouliquen: CORIOLIS: A French Project To Collect And Qualify In-Situ Data For Operational Oceanography	
14:40	U. Send: In situ observations in the GHRSSST-PP	
15:00	A. Hines: Applications of GHRSSST-PP products in FOAM	
15:20	E. Chassignet: Application of GHRSSST-PP data products in GODAE.	
15:40	Session summary	B. Emery
15:50	Coffee break	
16:00	S. Eastwood: Operational use of regional high-resolution SST in a coupled ice-ocean model at Norwegian Meteorological Institute.	B. Emery
16:20	I. Barton: Fish and Farm Management in Australia Using SST	
16:40	Session summary	B. Emery
16:50	Summary: Applications of GHRSSST-PP data products	C. Donlon
17:10	Meeting Close	
17:15	GHRSSST-PP Science Team Meeting (1 hour)	Science Team
19:30	Cocktail Reception at the Hotel Grazioli	All invited

Agenda for Tuesday December 3rd 2002

Time	Title	Leaders
	Session 2. GHRSSST-PP internal component project summaries	
08:30	H. Kawamura: Towards the Japanese RDAC: The NGSST project and its second version.	H. Kawamura
08:50	G. Wick: A proposal to NASA for a USA RDAC	
09:10	O. Arino, Ian Robinson & P. LeBorgne Towards a European RDAC: The Medspiration project	
09:30	N. Rayner: GHRSSST-PP and Climate data sets	
09:50	K. Casey: The User Information Services re-analysis project (UIS-RAN)	
10:10	Session summary	H. Kawamura
10:40	Coffee break	
11:00	S. Hankin and F Blanc: The GODAE Data Sharing Pilot Project	C. Mutlow
11:20	E. Armstrong: The GHRSSST-PP Master Metadata Repository (MDR)	
11:40	J. Vasquez and E. Armstrong: Towards the GHRSSST-PP User Information Services Data Active Archive Center (UIS-DAAC) and Data Product Server (UIS-DP)-The PODAAC Experience	
12:00	C. Donlon, S. Pinnock, and Ed Armstrong: Implementation of the GHRSSST-PP high resolution Diagnostic Data Set (HR-DDS)	
12:20	Session summary	C. Mutlow
12:30	Lunch	
14:00	J. Vasquez: The GHRSSST-PP Diagnostic Data Set	J. Vasquez
14:20	A. Harris: The GDAC Data Product Computation Facility (DPCF)	
14:40	H. Kawamura: Japanese research plans towards the satellite/in situ GHRSSST-PP network	
15:00	G. Wick: In situ and Satellite Data Integration (ISDI). First report of the Technical Advisory Group (ISDI-TAG)	
15:20	Session summary	J. Vasquez
15:30	Coffee	
	Session 3. Data Access	
15:50	D. May: NAVOCEAN data and the GHRSSST-PP	C. Gentemann
16:10	M. Petit: The SEASnet program and the GHRSSST-PP	
16:30	H Kawamura: The NASDA GHRSSST-PP data server	
16:50	C Donlon: An ESA Category I proposal for access to ESA data within the GHRSSST-PP	
17:10	Session summary	C. Gentemann
17:20	Close	
19:30	GHRSSST-PP dinner Location to be confirmed (self funded)	All

Agenda for Wednesday December 4th 2002

Time	Title	Leaders
	Session 4. Validation of GHRSSST-PP data products	
08:30	C. Gentemann: Calibration and Validation of AMSR-E: Early results	I. Barton
08:50	P. Minnett: Validation of satellite SST using MAERI data	
09:10	I. Barton, Pearce and Mahoney: Validation of AATSR SST in Australian Waters	
09:30	R. Evans: A comparison of MODIS AQUA and TERRA SST using MAERI and buoy observations	
09:50	L. Horrocks: Validation of ENVISAT AATSR data at the UK Met. Office	
10:10	A. Jessup: Long-term Measurements of Skin and Near-Surface Temperature on the R/V Brown	
10:30	Session summary	I. Barton
10:40	Coffee break	
	Session 5 GHRSSST-PP R&D – Methods	
10:50	R. W. Reynolds: OOPC SST Working Group and Buoy Need Requirements	G. Wick
11:10	J. Vasquez et al.: The Effect of Aerosols and Clouds on the retrieval of SST from AVHRR and ATSR2	
11:30	C. Mutlow: the ATSR Programme – a reference SST data Source?	
11:50	S. Casitas, P. Le Borgne and H. Roquet: Merged SST data products at Meteo France CMS	
12:10	C. Gentemann: Developments in AMSR-E/TRMM-TMI/TRMM-VIRS fusion SST	
12:30	Session summary	G. Wick
12:40	Lunch	
14:00	C. Gentemann: Diurnal signals in satellite SST measurements	A. Harris
14:20	A. Harris: Innovative strategies or cloud removal within the GHRSSST-PP	
14:40	H. Kawamura: The present status of AMSR-E and ADEOS-II	
15:00	P. LeBorgne: Characterising the error in GHRSSST-PP data products	
15:20	C. Merchant: Radiative Transfer modeling limits and using ATSR2 to calibrate GMS.	
15:40	Session summary	
15:50	Coffee	A. Harris
	Session 6. Summary and plenary discussion	
16:00	GHRSSST-PP Implementation: Outstanding Issues	C. Donlon
17:00	AOB	
17:15	Close	

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